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(54) **COMPONENT FOR A MOTOR VEHICLE  
AND ASSOCIATED MOTOR VEHICLE**

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(58) **Field of Classification Search**

None

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,567,922 A \* 10/1996 Schmuck ..... B60R 13/08  
181/284

5,981,046 A \* 11/1999 Masui ..... B29C 44/025  
428/213

(Continued)

FOREIGN PATENT DOCUMENTS

DE 3301682 A1 7/1984

DE 102004053751 A1 5/2006

(Continued)

OTHER PUBLICATIONS

International Search Report for application No. PCT/EP2013/  
051055, dated Mar. 4, 2013, 3 pages.

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(57) **ABSTRACT**

Component for a motor vehicle and associated motor vehicle. The component according to the invention has a first support layer (20) and a second support layer (22), partially applied on the first layer (20). The second layer (22) includes at least one first region (24A, 24B) applied on the first layer (20) and at least one second region (26A, 26B) positioned across from and separated from the first layer (20), the second region (26A, 26B) together with the first layer (20) delimiting an intermediated space (34A, 34B). The second region (26A, 26B) has a density lower than the density of the first region (24A, 24B). The second layer (22) comprises at least one third region (28A) applied on the first layer (20), the third region (28A) having a density lower than the density of the first region (24A, 24B).

**15 Claims, 5 Drawing Sheets**

